

FISHWAY STATUS REPORT

Date: 12/30/2012
 Inspection Period: 12/23-29/2012

THE DALLES DAM



**US Army Corps
 of Engineers**
 Portland District

The Dalles Project-Fisheries
 P.O. Box 564
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Fishways are inspected twice daily. Additional daily monitoring done via automation system in fisheries office.

The Dalles Dam	Inspections Out of Criteria	Criteria Limit	Total Number of Inspections: 7	Temperature: 43.9 F
			Comments	Secchi: 5.0 Ft.
NORTH FISHWAY				
Exit differential	0	≤ 0.5'		
Count station differential	0	≤ 0.3'		
Weir crest depth	0	1.0' ± 0.1'		
Entrance differential	0	1.0' - 2.0'	Average 1.3	Daily differentials & weir depths, see AVGS tab.
Entrance weir N1	0	depth (≥ 8')	Average 9.0	
Entrance weir N2		Closed	Bulkhead installed	
PUD Intake differential	0	≤ 0.5'		
East Fishway				
Exit differential			East Adult Fish Ladder Dewatered 12-03-12 For Annual inspection and maintenance East Adult Fish Ladder scheduled RTS 01-17-13	
Removable weirs 154-157				
Weir 158-159 differential				
Count station differential				
Weir crest depth				
Junction pool weir JP6				
East entrance differential				
Entrance weir E1				
Entrance weir E2				
Entrance weir E3				
Collection channel velocity				
Transportation channel velocity				
North channel velocity				
South channel velocity				
West entrance differential				
Entrance weir W1				
Entrance weir W2				
Entrance weir W3				
South entrance differential				
Entrance weir S1				
Entrance weir S2				
JUVENILE PASSAGE			Season Resumes 03-01-2013	
Sluiceway operation		units 1,8,18	End Gate Closed	
Turbine trashrack drawdown		<1.5', wkly		
Spill volume		40%, 24hr	No Spill - All Spill gates on seal	
Spill Pattern		per FPP		
Turbine Unit Priority		per FPP	Not in fish passage season	
Turbine 1% Efficiency		per FPP		

OTHER ISSUES:

THE DALLES

Birds:

Fisheries personnel conducting bird observations once per day.

Refer to "Avian Distribution" tab for species, location, and numbers.

Eagle observations started Dec 15 as second of 2 year study to determine eagle interactions with avian lines. This is a collaborative effort between project fisheries and Fish Field Unit. Final results will help determine future management of avian lines. Up to 30 eagles observed using Westrick park.

Operations:

North fishladder in service and conforming to fish passage criteria. East ladder out of service for annual maintenance. East ladder return to service ~Jan 22. Ice/Trash Sluiceway closed per Fish Passage Plan.

Maintenance:

East fish ladder upper section winter maintenance includes the following:

PM count station, complete grating installation east and west entrance, renumber exit staff gauges; seal expansion joint lead above exit electrical panel, repair loose grating panel in transportation channel. install avian lines at ladder bend for herons, FSQ electrical upgrade, removed of tree from transportation channel near westrick.

Grating attachment stud integrity for west entrance discovered. Project engineering staff investigating. More information in coming reports.

East entrance weir E2 removed for wheel damage repair. Weir from unused W3 entrance will be installed in E2.

East fishway fish units out of service for routine maintenance Dec1. Fish unit F1 out through Jan31 for overhaul and digital governor upgrade. Fish unit F2 out through Jan17 for annual maintenance.

Research:

PSMFC, NWW distict and NWP district study team moving forward with thin walled PIT Tag antennae for both north and east count stations this winter. Project support includes demo of control panels in unused fishlock stand to make room for PIT equipment and providing two 20 amp circuit power per count station. All remaining install to be done via contractor and/or PSMFC. Communication connection site visit planned for Jan 8.

Planning underway for dive removal of all JSAT equipment on powerhouse and spillway, including derelict USGS equipment on powerhouse. Work planned for mid Feb.

Approved by;
Ron D. Twiner
Operation Project Manager
The Dalles Dam

	Temp:		Secchi:
	44.8	SUN	5.0
	44.4	MON	5.0
	44.1	TUES	5.0
	43.8	WED	5.0
	43.8	THUR	5.0
	43.5	FRI	5.0
	43.0	SAT	5.0
AVG:	43.9	AVG:	5.0

The Dalles Dam Daily Readings and Averages for
Temperatures, Secchi, Entrances, and Spill

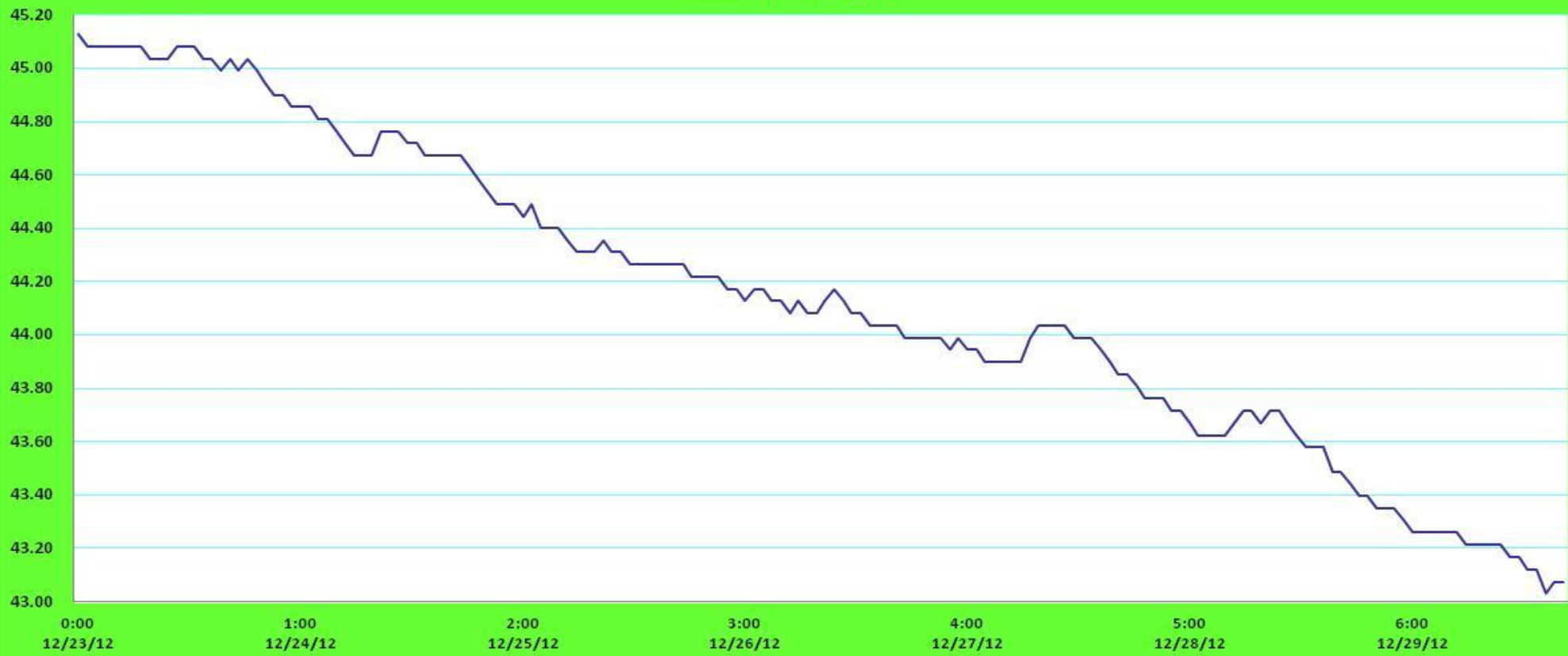
North Fish Ladder			East Fish Ladder												
North Entrance			East Entrance					West Entrance				South Entrance			
Date:	Differential	N1 Depth	Differential	E1Depth	E2 Depth	E3 Depth	JP 6	Differential	W1Depth	W2 Depth	W3 Depth	Differential	S1 Depth	S2 Depth	% Spill
12/23/12	1.3	9.0													
12/24/12	1.3	9.1													
12/25/12	1.3	9.0													
12/26/12	1.4	9.1													
12/27/12	1.3	9.1													
12/28/12	1.3	8.9													
12/29/12	1.5	9.0													
AVG:	1.3	9.0													

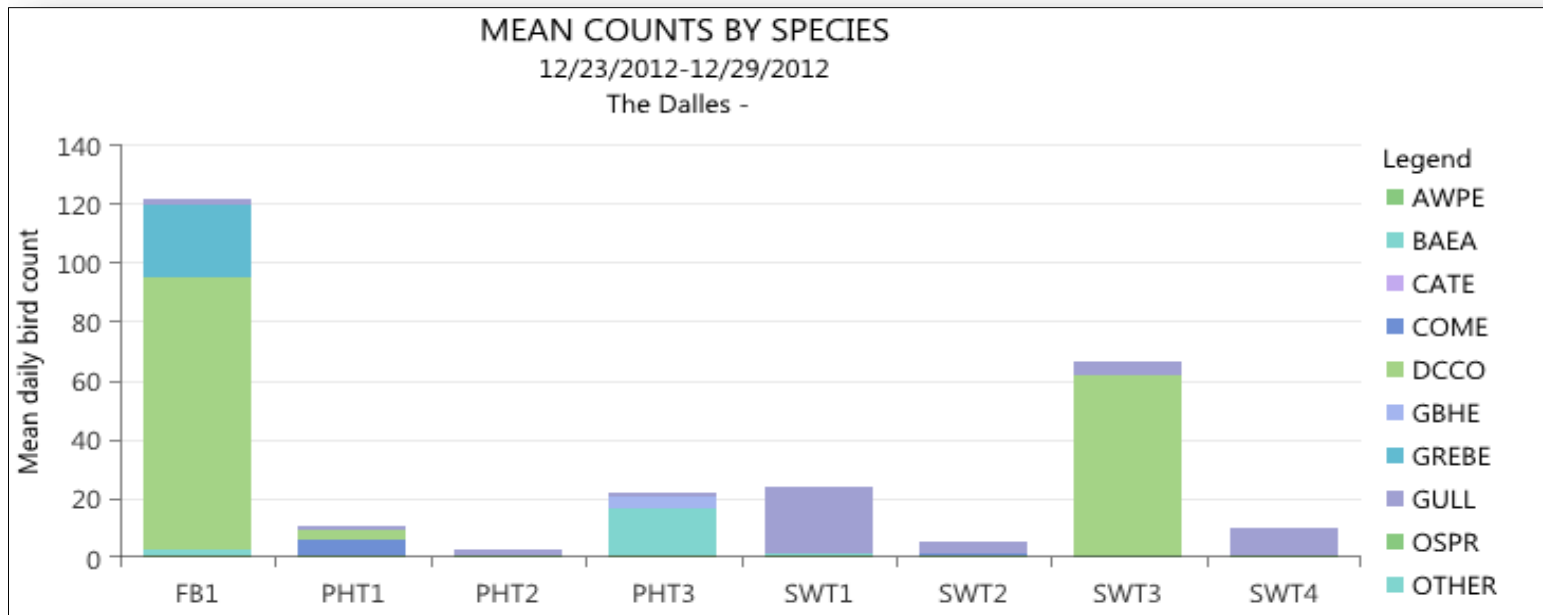
Third fish way inspection for east fish ladder, east, west, and south entrances completed via automation system in fisheries office.

North Adult Fish Ladder Hourly River/Water Temperatures

°F

— North Fish Ladder

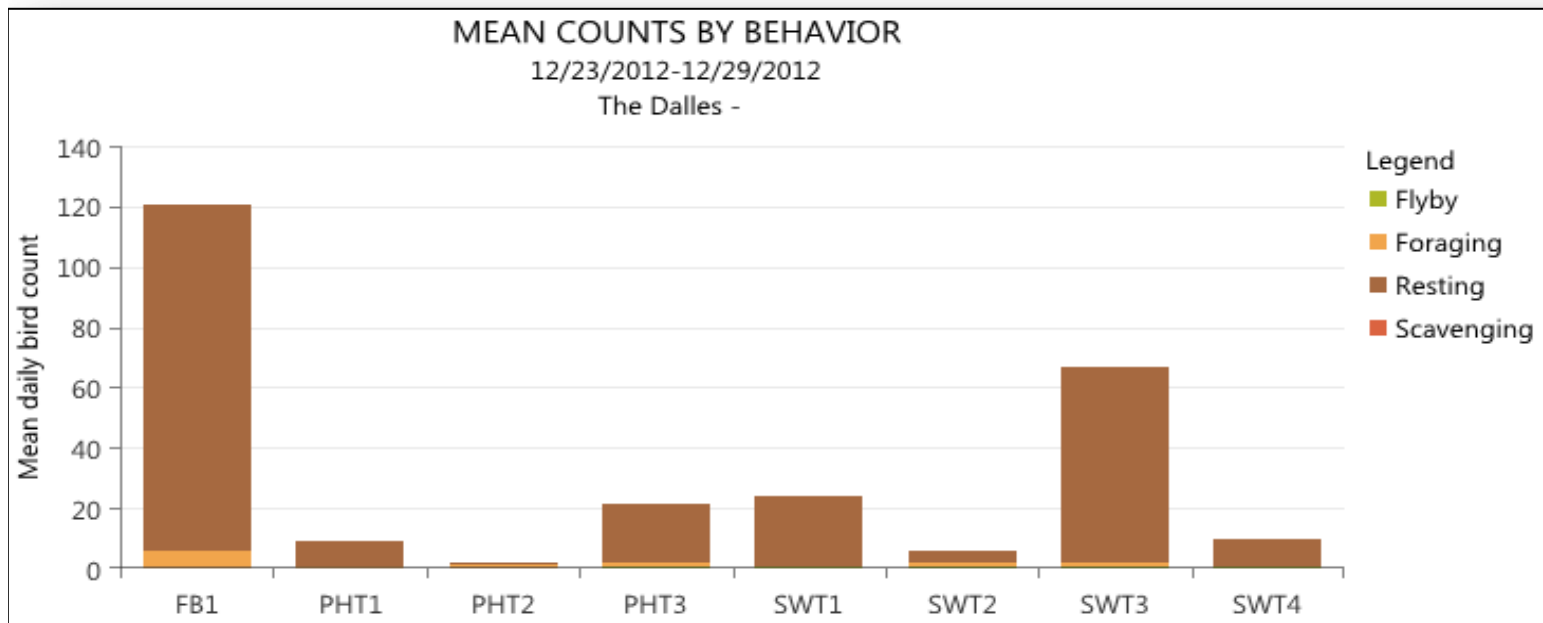




American White Pelican - (AWPE); Bald Eagle - (BAEA); Caspiran Tern - (CATE); Common Merganser - (COME)

Double Crested Cormorant - (DCCO); Great Blue Heron - (GBHE); Grebe - (GREBE);

Gull - all species (GULL); Osprey (Ospr)



The Dalles Dam Maximum Daily Bird Observations

Washington Shore

FB1

PH-T1

PH-T2

SW-T1

PH-T3

SW-T2

SW-T3

SW-T4

Oregon Shore





High Cormorant numbers resting on north forebay debris boom (~146)